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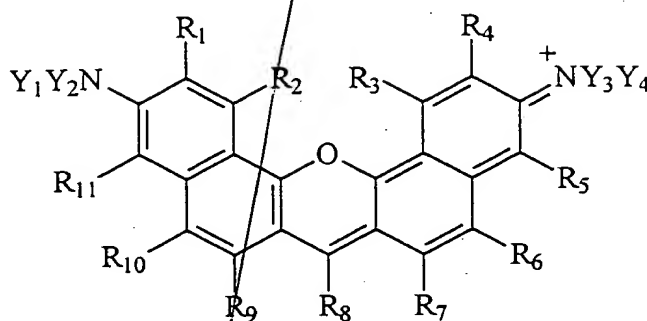
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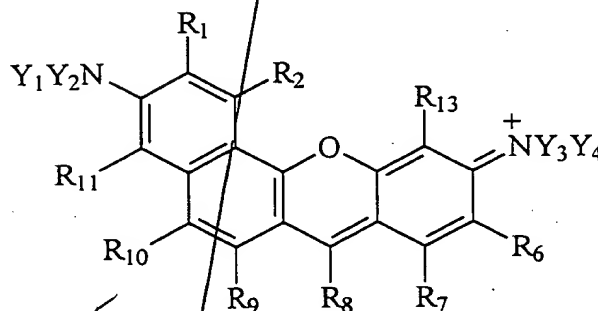
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## WE CLAIM:

1. An extended rhodamine compound having the structure



or,



wherein

$R_1$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein  $\text{R}$  is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $R_1$  taken together with  $R_2$ ,  $Y_1$ , or  $Y_2$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_2$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $R_2$  taken together with  $R_1$  is selected from the group consisting of alkylene, alkylene independently substituted with one or more  $Z_1$ , heteroalkylene, heteroalkylene independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_3$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $R_3$  taken together with  $R_4$  is selected from the group consisting of alkylene, alkylene independently substituted with one or more  $Z_1$ , heteroalkylene, heteroalkylene independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_4$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,

P(O)O<sub>2</sub>RR, -C(O)OR, -NRR, -NRRR, -NC(O)R, -C(O)R, -C(O)NRR, -CN, and -OR, wherein R is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or, R<sub>4</sub> taken together with R<sub>3</sub>, Y<sub>3</sub>, or Y<sub>4</sub> is selected from the group consisting of alkylene, alkylene independently substituted with one or more Z<sub>1</sub>, heteroalkylene, heteroalkylene independently substituted with one or more Z<sub>1</sub>, arylene, arylene independently substituted with one or more Z<sub>1</sub>, heteroarylene, and heteroarylene independently substituted with one or more Z<sub>1</sub>;

R<sub>5</sub> taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more Z<sub>1</sub>, heteroalkyl, heteroalkyl independently substituted with one or more Z<sub>1</sub>, aryl, aryl independently substituted with one or more Z<sub>1</sub>, heteroaryl, heteroaryl independently substituted with one or more Z<sub>1</sub>, arylalkyl, arylalkyl independently substituted with one or more Z<sub>1</sub>, heteroarylalkyl, heteroarylalkyl independently substituted with one or more Z<sub>1</sub>, halogen, -OS(O)<sub>2</sub>OR, -S(O)<sub>2</sub>OR, -S(O)<sub>2</sub>R, -S(O)<sub>2</sub>NR, -S(O)R, -OP(O)O<sub>2</sub>RR, -P(O)O<sub>2</sub>RR, -C(O)OR, -NRR, -NRRR, -NC(O)R, -C(O)R, -C(O)NRR, -CN, and -OR, wherein R is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or, R<sub>5</sub> taken together with R<sub>6</sub>, Y<sub>3</sub>, or Y<sub>4</sub> is selected from the group consisting of alkylene, alkylene independently substituted with one or more Z<sub>1</sub>, heteroalkylene, heteroalkylene independently substituted with one or more Z<sub>1</sub>, arylene, arylene independently substituted with one or more Z<sub>1</sub>, heteroarylene, and heteroarylene independently substituted with one or more Z<sub>1</sub>;

R<sub>6</sub> taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more Z<sub>1</sub>, heteroalkyl, heteroalkyl independently substituted with one or more Z<sub>1</sub>, aryl, aryl independently substituted with one or more Z<sub>1</sub>, heteroaryl, heteroaryl independently substituted with one or more Z<sub>1</sub>, arylalkyl, arylalkyl independently substituted with one or more Z<sub>1</sub>, heteroarylalkyl, heteroarylalkyl independently substituted with one or more Z<sub>1</sub>, halogen, -OS(O)<sub>2</sub>OR, -S(O)<sub>2</sub>OR, -S(O)<sub>2</sub>R, -S(O)<sub>2</sub>NR, -S(O)R, -OP(O)O<sub>2</sub>RR, -P(O)O<sub>2</sub>RR, -C(O)OR, -NRR, -NRRR, -NC(O)R, -C(O)R, -C(O)NRR, -CN, and -OR, wherein R is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or, R<sub>6</sub> taken together with R<sub>5</sub>, R<sub>7</sub>, Y<sub>3</sub>, or Y<sub>4</sub> is selected from the group consisting of alkylene, alkylene independently substituted with one or more Z<sub>1</sub>, heteroalkylene, heteroalkylene independently substituted with one or

more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_7$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein  $R$  is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $R_7$  taken together with  $R_6$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_8$  is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ ;

$R_9$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein  $R$  is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $R_9$  taken together with  $R_{10}$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ ,

aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_{10}$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $R_{10}$  taken together with  $R_9$  or  $R_{11}$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_{11}$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $R_{11}$  taken together with  $R_{10}$ ,  $Y_1$  or  $Y_2$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_{13}$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl

independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of  $-\text{H}$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $R_{13}$  taken together with  $Y_3$  or  $Y_4$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroarylno, and heteroarylno independently substituted with one or more  $Z_1$ ;

$Y_1$  taken alone is selected from the group consisting of  $-\text{H}$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, and heteroarylalkyl independently substituted with one or more  $Z_1$ , or  $Y_1$  taken together with  $R_1$ ,  $R_{11}$  or  $Y_2$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkylno, heteroalkylno independently substituted with one or more  $Z_1$ , arylno, arylno independently substituted with one or more  $Z_1$ , heteroarylno, and heteroarylno independently substituted with one or more  $Z_1$ ;

$Y_2$  taken alone is selected from the group consisting of  $-\text{H}$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, and heteroarylalkyl independently substituted with one or more  $Z_1$ , or  $Y_2$  taken together with  $R_1$ ,  $R_{11}$  or  $Y_1$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkylno, heteroalkylno independently substituted with one or more  $Z_1$ , arylno, arylno independently substituted with one or more  $Z_1$ , heteroarylno, and heteroarylno independently substituted with one or more  $Z_1$ ;

$Y_3$  taken alone is selected from the group consisting of  $-\text{H}$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl

independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, and heteroarylalkyl independently substituted with one or more  $Z_1$ , or  $Y_3$  taken together with  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_{13}$  or  $Y_4$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$Y_4$  is absent, or  $Y_4$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, and heteroarylalkyl independently substituted with one or more  $Z_1$ , or  $Y_4$  taken together with  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_{13}$  or  $Y_3$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ; and

$Z_1$  is selected from the group consisting of, -R, halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ ,  $-\text{O}$  and  $-\text{OR}$ , wherein R is independently selected from the group consisting of -H, alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group.

2. The compound of **claim 1** wherein  $Y_1$  is taken together with  $R_1$  or  $R_{11}$  and is  $C_2$  or  $C_3$  alkyleno or alkyleno independently substituted with one or more  $Z_1$ , or  $Y_2$  is taken together with  $R_1$  or  $R_{11}$  and is  $C_2$  or  $C_3$  alkyleno or alkyleno independently substituted with one or more  $Z_1$ , or  $Y_3$  is taken together with  $R_4$  or  $R_5$  or  $R_6$  or  $R_{13}$  and is  $C_2$  or  $C_3$  alkyleno or alkyleno independently substituted with one or more  $Z_1$ , or  $Y_4$  is taken together with  $R_4$  or  $R_5$  or  $R_6$  or  $R_{13}$  and is  $C_2$  or  $C_3$  alkyleno or alkyleno independently substituted with one or more  $Z_1$ .

3. The compound of **claim 2** wherein the  $C_2$  or  $C_3$  substituted alkyleno is gem disubstituted with  $C_1$  to  $C_3$  alkyl.

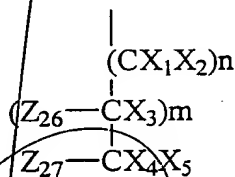


4. The compound of **claim 3** wherein the  $C_2$  or  $C_3$  substituted alkylene is gem disubstituted with methyl.

5. The compound of **claim 1** wherein  $R_8$  is alkyl independently substituted with one or more substituents selected from the group consisting of halogen,  $-C(O)R$ , and  $-S(O)_2R$  wherein  $R$  is independently selected from the group consisting of  $-OH$ , O-alkyl,  $-NH_2$ , N-alkyl and linking group.

6. The compound of **claim 1** wherein  $R_8$  is  $-CF_3$ .

7. The compound of **claim 1** wherein  $R_8$  is



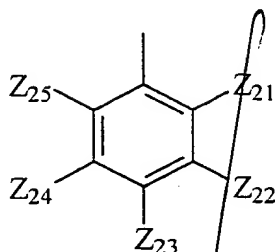
wherein  $Z_{26}$  and  $Z_{27}$  are each independently selected from the group consisting of hydrogen,  $-OS(O)_2OR$ ,  $-S(O)_2OR$ ,  $-S(O)_2R$ ,  $-S(O)_2NR$ ,  $-S(O)R$ ,  $-OP(O)O_2RR$ ,  $-P(O)O_2RR$ ,  $-C(O)OR$ ,  $-NRR$ ,  $-NRRR$ ,  $-NC(O)R$ ,  $-C(O)R$ ,  $-C(O)NRR$ ,  $-NC(O)R$ ,  $R$ , and  $-OR$ , wherein  $R$  is independently selected from the group consisting of  $-H$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, and  $X_1$ ,  $X_2$ ,  $X_3$ ,  $X_4$ , and  $X_5$  are each independently selected from the group consisting of hydrogen,  $-Cl$ ,  $-Br$  and  $-F$ , wherein  $n$  and  $m$  are integers each independently ranging from 0 to 5.

8. The compound of **claim 7** wherein  $X_1$  and  $X_2$  are  $-H$ .

9. The compound of **claim 7** wherein  $X_1$ ,  $X_2$ ,  $X_4$  and  $X_5$  are each  $-F$ .

10. The compound of **claim 1** wherein  $R_8$  is aryl or aryl independently substituted with one or more  $Z_1$ .

11. The compound of **claim 1** wherein  $R_8$  has the structure



wherein  $Z_{21}$ ,  $Z_{22}$ ,  $Z_{23}$ ,  $Z_{24}$  and  $Z_{25}$  each taken separately are  $Z_1$ .

12. The compound of **claim 11** wherein  $Z_{21}$ ,  $Z_{22}$ ,  $Z_{23}$ ,  $Z_{24}$  and  $Z_{25}$  are each independently selected from the group consisting of  $-H$ , halogen,  $C_1$  to  $C_3$  alkyl,  $-C(O)OR$ ,  $-C(O)R$ ,  $-S(O)_2OR$ ,  $-S(O)_2R$ , and  $-CH_2OR$ , wherein  $R$  is independently selected from the group consisting of  $-H$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group.

13. The compound of **claim 11** wherein one or more of  $Z_{21}$ ,  $Z_{22}$ ,  $Z_{23}$ ,  $Z_{24}$  or  $Z_{25}$  is  $-Cl$  or  $-F$ .

14. The compound of **claim 11** wherein  $Z_{21}$  is  $-C(O)OH$ .

15. The compound of **claim 11** wherein  $Z_{21}$  is  $-C(O)OH$  and one of  $Z_{23}$  or  $Z_{24}$  is  $-C(O)OH$ .

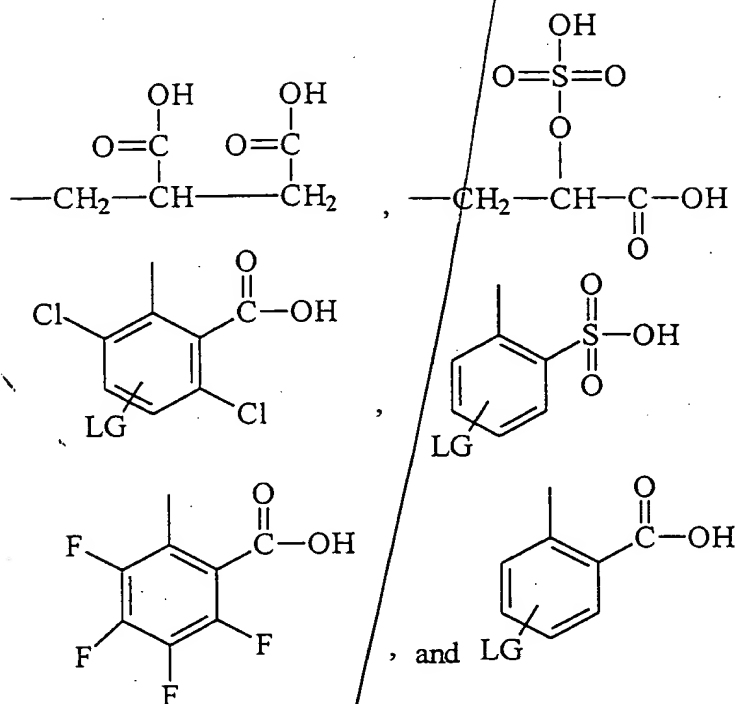
16. The compound of **claim 11** wherein  $Z_{22}$  and  $Z_{25}$  are each  $-Cl$ .

17. The compound of **claim 11** wherein  $Z_{22}$ ,  $Z_{23}$ ,  $Z_{24}$  and  $Z_{25}$  are each  $-F$ .

18. The compound of **claim 11** wherein  $Z_{21}$  is  $-S(O)_2OH$  and one of  $Z_{23}$  or  $Z_{24}$  is  $-C(O)OH$ .

19. The compound of **claim 11** wherein  $Z_{21}$  is  $-C(O)OR$  and one of  $Z_{22}$ ,  $Z_{23}$ , or  $Z_{24}$  is linking group.

20. The compound of **claim 1** wherein  $R_8$  is selected from the group consisting of



wherein LG is linking group.

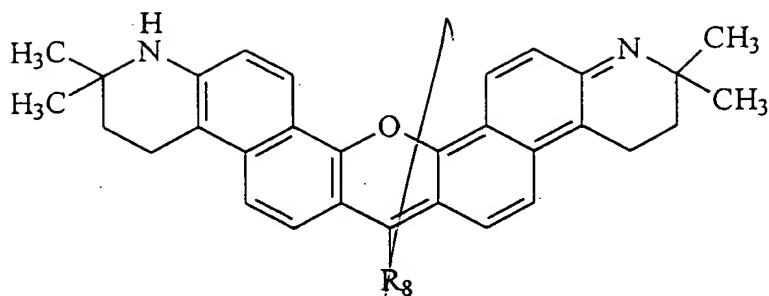
21. The compound of **claim 1** wherein at least one of  $Y_1$ ,  $Y_2$ ,  $Y_3$ , or  $Y_4$  taken separately is selected from the group consisting of  $-H$ , alkyl, aryl and arylalkyl.

22. The compound of **claim 1** wherein one or more of  $R_1$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$  and  $R_{13}$  is each independently  $-S(O)_2OH$ .

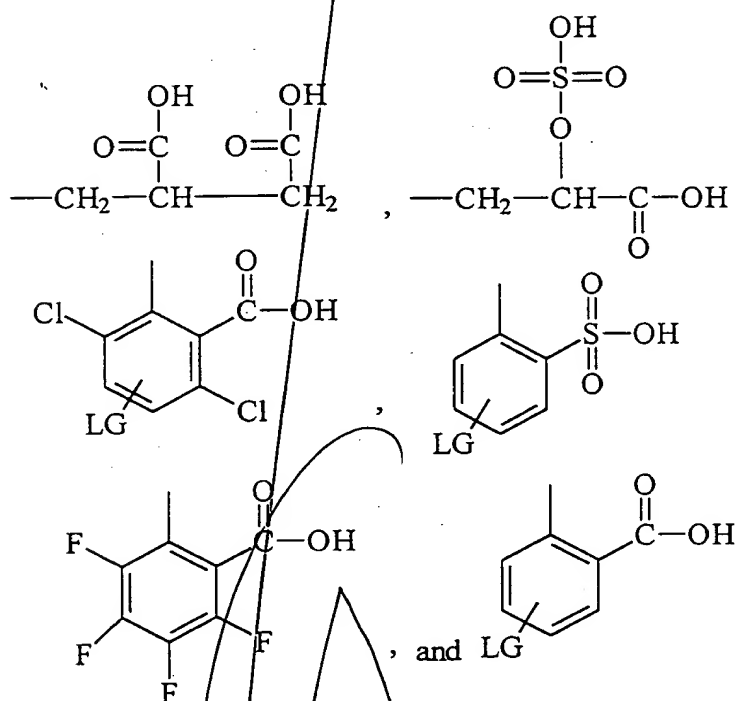
23. The compound of **claim 1** wherein one or more of  $R_1$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$  and  $R_{13}$  are each independently  $-F$  or  $-Cl$ .

24. The compound of **claim 1** wherein one or more of  $R_1$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$  and  $R_{13}$  is each independently aryl or aryl independently substituted with one or more  $Z_1$ .

25. The compound of **claim 1** having the structure

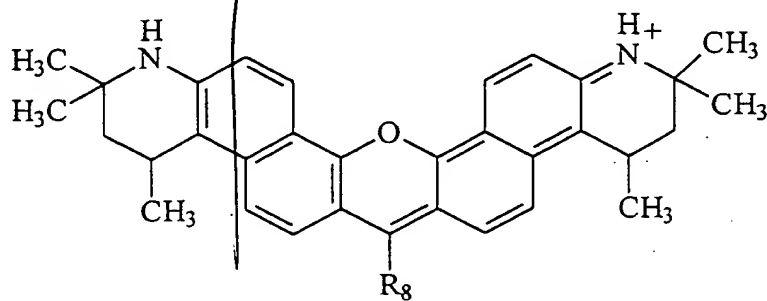


wherein  $R_8$  is selected from the group consisting of

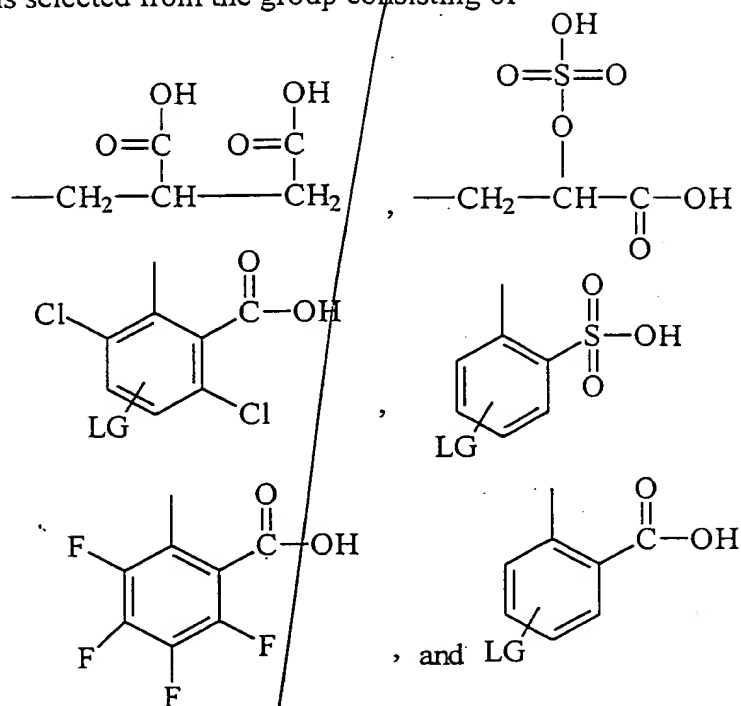


wherein LG is linking group.

26. The compound of **claim 1** having the structure

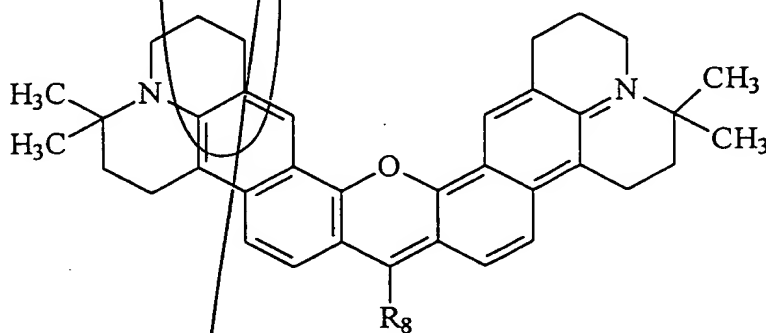


wherein  $R_8$  is selected from the group consisting of

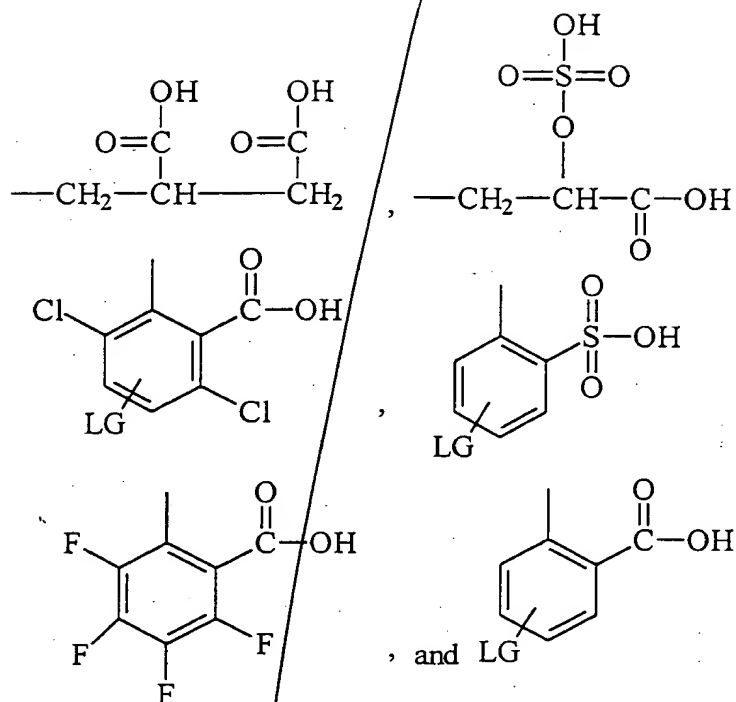


wherein LG is linking group.

27. The compound of **claim 1** having the structure

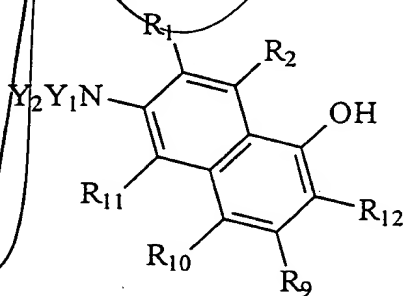


wherein  $R_8$  is selected from the group consisting of



wherein LG is linking group.

20 28. An intermediate useful for the synthesis of extended rhodamine compounds having the structure



wherein

25  $R_1$  taken alone is selected from the group consisting of -H, alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted

with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of  $-\text{H}$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $\text{R}_1$  taken together with  $\text{R}_2$ ,  $\text{Y}_1$ , or  $\text{Y}_2$  is selected from the group consisting of alkylene, alkylene independently substituted with one or more  $Z_1$ , heteroalkylene, heteroalkylene independently substituted with one or more  $Z_1$ , arylene, arylene independently substituted with one or more  $Z_1$ , heteroarylene, and heteroarylene independently substituted with one or more  $Z_1$ ;

$\text{R}_2$  taken alone is selected from the group consisting of  $-\text{H}$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of  $-\text{H}$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $\text{R}_2$  taken together with  $\text{R}_1$  is selected from the group consisting of alkylene, alkylene independently substituted with one or more  $Z_1$ , heteroalkylene, heteroalkylene independently substituted with one or more  $Z_1$ , arylene, arylene independently substituted with one or more  $Z_1$ , heteroarylene, and heteroarylene independently substituted with one or more  $Z_1$ ;

$\text{R}_3$  is selected from the group consisting of  $-\text{H}$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ ;

$\text{R}_4$  taken alone is selected from the group consisting of  $-\text{H}$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or

more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of  $-\text{H}$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $\text{R}_9$  taken together with  $\text{R}_{10}$  is selected from the group consisting of alkylene, alkylene independently substituted with one or more  $Z_1$ , heteroalkylene, heteroalkylene independently substituted with one or more  $Z_1$ , arylene, arylene independently substituted with one or more  $Z_1$ , heteroarylene, and heteroarylene independently substituted with one or more  $Z_1$ ;

$\text{R}_{10}$  taken alone is selected from the group consisting of  $-\text{H}$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of  $-\text{H}$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $\text{R}_{10}$  taken together with  $\text{R}_9$  or  $\text{R}_{11}$  is selected from the group consisting of alkylene, alkylene independently substituted with one or more  $Z_1$ , heteroalkylene, heteroalkylene independently substituted with one or more  $Z_1$ , arylene, arylene independently substituted with one or more  $Z_1$ , heteroarylene, and heteroarylene independently substituted with one or more  $Z_1$ ;

$\text{R}_{11}$  taken alone is selected from the group consisting of  $-\text{H}$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, heteroarylalkyl independently substituted with one or more  $Z_1$ , halogen,  $-\text{OS}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{OR}$ ,  $-\text{S}(\text{O})_2\text{R}$ ,  $-\text{S}(\text{O})_2\text{NR}$ ,  $-\text{S}(\text{O})\text{R}$ ,  $-\text{OP}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{P}(\text{O})\text{O}_2\text{RR}$ ,  $-\text{C}(\text{O})\text{OR}$ ,  $-\text{NRR}$ ,  $-\text{NRRR}$ ,  $-\text{NC}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{R}$ ,  $-\text{C}(\text{O})\text{NRR}$ ,  $-\text{CN}$ , and  $-\text{OR}$ , wherein R is independently selected from the group consisting of  $-\text{H}$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group, or,  $\text{R}_{11}$  taken together with  $\text{R}_{10}$ ,  $\text{Y}_1$  or  $\text{Y}_2$  is selected from the group consisting of alkylene, alkylene independently substituted with one or more  $Z_1$ , heteroalkylene, heteroalkylene independently substituted with one or more  $Z_1$ ,



aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$R_{12}$  is selected from the group consisting of  $-H$  and  $-C(O)R_3$ ;

$Y_1$  taken alone is selected from the group consisting of  $-H$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, and heteroarylalkyl independently substituted with one or more  $Z_1$ , or  $Y_1$  taken together with  $R_1$ ,  $R_{11}$  or  $Y_2$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ;

$Y_2$  taken alone is selected from the group consisting of  $-H$ , alkyl, alkyl independently substituted with one or more  $Z_1$ , heteroalkyl, heteroalkyl independently substituted with one or more  $Z_1$ , aryl, aryl independently substituted with one or more  $Z_1$ , heteroaryl, heteroaryl independently substituted with one or more  $Z_1$ , arylalkyl, arylalkyl independently substituted with one or more  $Z_1$ , heteroarylalkyl, and heteroarylalkyl independently substituted with one or more  $Z_1$ , or  $Y_2$  taken together with  $R_1$ ,  $R_{11}$  or  $Y_1$  is selected from the group consisting of alkyleno, alkyleno independently substituted with one or more  $Z_1$ , heteroalkyleno, heteroalkyleno independently substituted with one or more  $Z_1$ , aryleno, aryleno independently substituted with one or more  $Z_1$ , heteroaryleno, and heteroaryleno independently substituted with one or more  $Z_1$ ; and

$Z_1$  is selected from the group consisting of,  $-R$ , halogen,  $-OS(O)_2OR$ ,  $-S(O)_2OR$ ,  $-S(O)_2R$ ,  $-S(O)_2NR$ ,  $-S(O)R$ ,  $-OP(O)O_2RR$ ,  $-P(O)O_2RR$ ,  $-C(O)OR$ ,  $-NRR$ ,  $-NRRR$ ,  $-NC(O)R$ ,  $-C(O)R$ ,  $-C(O)NRR$ ,  $-CN$ ,  $-O$  and  $-OR$ , wherein  $R$  is independently selected from the group consisting of  $-H$ , alkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl and linking group.

29. The compound of claim 28 wherein  $Y_1$  is taken together with  $R_1$  or  $R_{11}$  and is  $C_2$  or  $C_3$  alkyleno or alkyleno independently substituted with one or more  $Z_1$ , or  $Y_2$  is taken together

with  $R_1$  or  $R_{11}$  and is  $C_2$  or  $C_3$  alkylene or alkylene independently substituted with one or more  $Z_1$ .

30. The compound of **claim 29** wherein the  $C_2$  or  $C_3$  substituted alkylene is gem  
5 disubstituted with  $C_1$  to  $C_3$  alkyl.

31. The compound of **claim 30** wherein the  $C_2$  or  $C_3$  substituted alkylene is gem  
disubstituted with methyl.

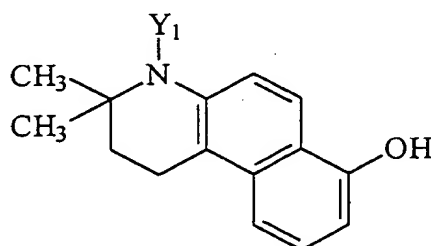
32. The compound of **claim 28** wherein at least one of  $Y_1$  or  $Y_2$  taken separately is  
10 selected from the group consisting of  $-H$ , alkyl, aryl and arylalkyl.

33. The compound of **claim 28** wherein one or more of  $R_1$ ,  $R_2$ ,  $R_9$ ,  $R_{10}$  and  $R_{11}$  is each  
independently  $-S(O)_2OH$ .

34. The compound of **claim 28** wherein one or more of  $R_1$ ,  $R_2$ ,  $R_9$ ,  $R_{10}$  and  $R_{11}$  is each  
independently  $-F$  or  $-Cl$ .

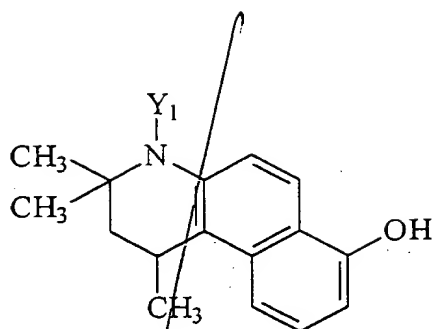
35. The compound of **claim 28** wherein one or more of  $R_1$ ,  $R_2$ ,  $R_9$ ,  $R_{10}$  and  $R_{11}$  is each  
20 independently aryl or aryl independently substituted with one or more  $Z_1$ .

36. The compound of **claim 28** having the structure



37. The compound of **claim 28** having the structure

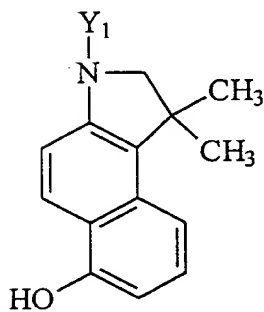
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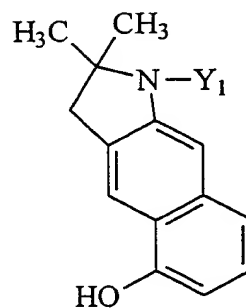
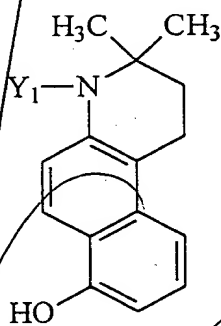
38. The compound of **claim 28** which is selected from the group consisting of

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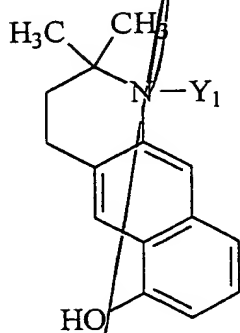


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and

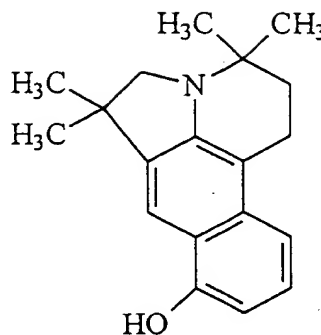
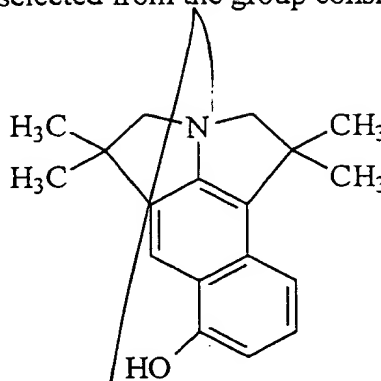
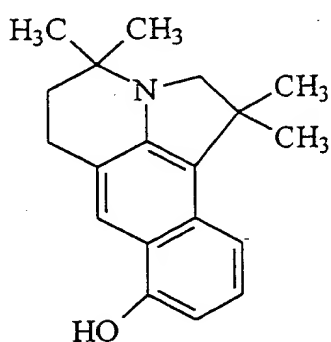


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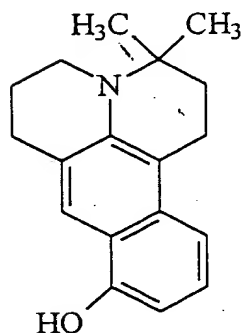


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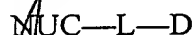
39. The compound of **claim 28** selected from the group consisting of



and ,



40. A labeled nucleoside/side having the formula:



wherein

NUC is a nucleoside/tide or nucleoside/tide analog;

L is a linkage;

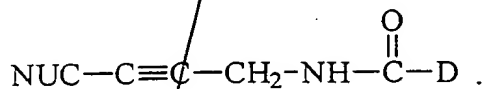
D is an extended rhodamine dye compound of **claim 1**;

wherein if NUC comprises a purine base, the linkage is attached to the 8-position of the purine, if NUC comprises a 7-deazapurine base, the linkage is attached to the 7-position of the 7-deazapurine, and if NUC comprises a pyrimidine base, the linkage is attached to the 5-position of the pyrimidine.

41. The labeled nucleoside/tide of **claim 40** wherein NUC comprises a base selected from the group consisting of uracil, cytosine, deazaadenine, and deazaguanosine.

42. The labeled nucleoside/tide of **claim 40** wherein NUC is a nucleotide terminator compound.

43. The labeled nucleoside/tide of **claim 40** having the structure



44. A method of fragment analysis comprising the steps of:

10 forming one or more labeled polynucleotide fragments, the fragments being labeled with an extended rhodamine compound of **claim 1**;

resolving the one or more labeled polynucleotide fragments; and

detecting the resolved labeled polynucleotide fragments.

15 45. The method of **claim 44** wherein the resolving step is an electrophoretic size-dependent separation process and the one or more labeled polynucleotide fragments are detected by fluorescence.

20 *AB*